

OIML Member State
The Netherlands

Number R60/2000-NL1-13.25 revision 1
Project number 13200048
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| Issuing authority | NMi Certin B.V. Person responsible: C. Oosterman |
| Applicant and Manufacturer | Keli Sensing Technology (Ningbo) Co. Ltd. No.199 Changxing Road Jiangbei district, Ningbo China |
| Identification of the certified type | A compression load cell , with strain gauges, equipped with electronics, Type : ZSF-D, ZSF-DSS & ZSW-D, ZSW-DSS |
| Characteristics | See next page |

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R60 - Edition 2000 (E) for accuracy class C

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified.
This Certificate does not bestow any form of legal international approval.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Test Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**
18 March 2014



C. Oosterman
Head Certification Board

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The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org

Parties concerned can lodge objection against this decision, within six weeks after the date of submission, to the general manager of NMi (see www.nmi.nl).



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The conformity was established by the results of tests and examinations provided in the associated OIML Test Report(s):

- No. NMI-13200048-03 dated 21 January 2014 that includes 45 pages;
- No. NMI-13200048-03 revision 1 dated 27 January 2014 that includes 45 pages.

Characteristics of the load cell:

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|--|--|
| Maximum capacity (E_{max}) | 20000 kg up to and including 100000 kg |
| Minimum dead load | 0 kg |
| Accuracy Class | C |
| Maximum number of load cell intervals (n) | 5000 |
| Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$ | 10000 |
| Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$ | 5000 |
| Temperature range | -10 °C / +40 °C |
| Fraction p_{LC} | 0,8 |
| Humidity Class | CH |
| Safe overload | 150% of E_{max} |
| Recommended excitation | 10 V DC |
| Excitation maximum | 18 V DC |
| Transducer material | Alloy steel and Stainless steel |
| Atmospheric protection | IP68 |
| Number of counts for E_{max} | $\geq Y * 5 / p_{LC}$ |
| Software identification | Version number: 2 |

The characteristics for n_{max} and Y can be reduced separately. Z is proportional or equal to n_{max} .

Each produced load cell is provided with an accompanying document with information about its characteristics.

Revision History

| Revision | Date | Change(s) |
|----------|-----------------|--|
| Initial | 24 January 2014 | - |
| 1 | 18 March 2014 | Administrative typing error on both pages. |